INTRODUCTION TO PLANT BIOLOGY

BIOLOGY 239


Lecture: MWF 2:15-3:15 PM. Irving 201
Labs: Bunnell 208/Greenhouse

Section 001 Tuesday 2-5 PM
Section 002 Thursday 9-12 AM

Lecture
Dr. John P. Bryant
Office: Room 414 Irving (4’th floor, Directly across the hall from the elevator)
Phone: 474-7802

Office Hours:

MWF 3:00-5:00

COURSE GRADE: 70% Will be from lecture tests, 30% From Lab. The lecture grade will be based on 4 tests each worth 100 points.

NOTE: Most of the material covered in the lectures can be found in the text. However, some material covered in some lectures cannot be found in your text. You are responsible for all of the material covered in all lectures, and as a result, some test questions will come from material that is not covered your text.

FINAL GRADE

A: 90% - 100% of total points from lecture and lab
B: 80% - 89% of total points from lecture and lab
C: 70% - 79% of total points from lecture and lab
D: 60% - 69% of total points from lecture and lab
F: 0% - 60% of total points from lecture and lab
PLANT STRUCTURE

Note: Each assignment should be read **BEFORE** the lecture in which it is covered. For example, Chapter 2 should be read before January 20.

Week 1
 Jan. 15: Introduction to Course

Week 2
 Jan. 18: Martin Luther King, Jr. Day
 Jan. 21: Cell Structure Chapter 3

Week 3
 Jan. 25: Tissues and Primary Growth of Stems Chapter 5
 Jan. 27: Leaves Chapter 6
 Jan. 29: Roots Chapter 7

Week 4
 Feb. 1: Structure of Woody Plants Chapter 8
 Feb. 3: Structure of Woody Plants Chapter 8
 Feb. 5: Flowers and Reproduction Chapter 9

Week 5
 Feb. 8: Flowers and Reproduction Chapter 9
 Feb. 10: Catch up and Review for Test
 Feb. 12: **FIRST MID-TERM EXAM**

TEST

The test will cover all material presented to date.

PLANT PHYSIOLOGY AND DEVELOPMENT

Week 6
 Feb. 15: Photosynthesis Chapter 10
 Feb. 17: Photosynthesis Chapter 10
 Feb. 19: Respiration Chapter 11
Week 7:

Feb. 24: Transport Processes Chapter 12
Feb. 26: Transport Processes Chapter 12

Week 8:

Mar. 1: Mineral Nutrition Chapter 13
Mar. 3: Review for Mid-Term
Mar. 5: Second Midterm Exam Chapter 13

TEST
The test will cover all material presented since the last test.

Week 9

Mar. 8: Introduction to Soils Chapter 13
Mar. 10: Plant Water Relations—water uptake from soils (Part I)
Mar. 12: Plant Water Relations—water uptake from soils (Part II)

Week 10

SPRING BREAK

SYSTEMATICS

Week 11

Mar. 22: Development and Morphogenesis Chapter 14
Mar. 24: Classification and Systematics Chapter 21
Mar. 26: Algae Chapter 21

Week 12: March 30-April 3

March 29: Nonvascular Plants Chapter 22
March 31: Seedless Vascular Plants Chapter 23
April 2: Seed Plants: Gymnosperms Chapter 23
Week 13

April 5: Seed Plants: Angiosperms
April 7: Review for Midterm
April 9: Third Midterm Exam

TEST

The test will cover all material presented since the last test.

ECOLOGY

Week 14

April 12: Populations
April 14: Communities
April 16: Ecosystems

Chapter 26

Week 15

April 19: Plant-Herbivore Interactions
April 21: Mutualisms—emphasis on mycorrhizae
April 23: Cold stress and plant adaptations.

Week 16

Apr. 26: Biomes
Apr. 28: Climate Change
May 30: Review for Final Midterm

Week 17

May 3: Final Midterm Exam

TEST

The test will cover all material presented since the last test.